

MISSOURI CLEAN WATER COMMISSION



G. Irene Crawford, Director, Northeast Regional Office

FACILITY DESCRIPTION (continued)

Outfall #001 - POTW - SIC #4952

Trickling filter/solids contact-aeration/aerobic sludge digester/sludge is land applied.
Design population equivalent is 4,000.
Design flow is 450,000 gallons per day.
Actual flow is 400,000 gallons per day.
Design sludge production is 126 dry tons/year.
Actual sludge production is 74 dry tons/year.

Legal Description: SW $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 30, T57N, R18W, Linn County
Receiving Stream: Unnamed tributary to East Yellow Creek (U)
First Classified Stream and ID: East Yellow Creek (P) (00597)
USGS Basin & Sub-watershed No.: (10280103-130004)

Outfall #002 - POTW - SIC #4952
Emergency overflow

Legal Description: SW $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 30, T57N, R18W, Linn County
Receiving Stream: Unnamed tributary to East Yellow Creek (U)
First Classified Stream and ID: East Yellow Creek (P) (00597)
USGS Basin & Sub-watershed No.: (10280103-130004)

Outfall #003 - Irrigation at Golf Course - SIC #4952

Chlorination\golf course pond\land application area at the Marceline Golf Club course

Legal Description: W $\frac{1}{2}$, SW $\frac{1}{4}$, Sec. 31, T57N, R18W, Linn County
Receiving Stream: Unnamed tributary to East Yellow Creek (U)
First Classified Stream and ID: East Yellow Creek (P) (00597)
USGS Basin & Sub-watershed No.: (10280103-130004)

Land Application to golf course:

Irrigation Volume /year: 10,800,000 gallons
Irrigation areas: 40 acres at design loading (40 acres total available)
Field slopes: less than 5 percent
Equipment type: sprinklers
Vegetation: golf course
Application rate is based on: hydraulic loading rate

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 5	
					PERMIT NUMBER MO-0039721	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/weekday**	24 hr. total
Biochemical Oxygen Demand ₅ ***	mg/L		60	40	once/month	24 hr. composite
Total Suspended Solids***	mg/L		60	40	once/month	24 hr. composite
pH - Units	SU	****		****	once/month	grab
<u>Outfall #002 - Emergency Overflow</u>						
Flow	MGD	*		*	once/weekday**	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		60	40	once/month	24 hr. composite
Total Suspended Solids	mg/L		60	40	once/month	24 hr. composite
pH - Units	SU	****		****	once/month	grab
<u>Outfall #003 - Irrigated Wastewater (Notes 1 & 2)</u>						
Fecal Coliform	#/100mL	200		200	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE <u>May 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I, II & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitoring requirement only.

** Once each weekday means: Monday, Tuesday, Wednesday, Thursday, and Friday.

*** This facility is required to meet a removal efficiency of 85% or more.

**** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

Note 1 - Wastewater that is irrigated shall be sampled at the irrigation pump or golf course pond.

Note 2 - Monitor only when irrigating wastewater at the golf course. Submit annual report by January 28 of each year listing the gallons irrigated each month and total gallons per year at the golf course and summary of test results.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 ug/L);
 - (2) Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
5. Report as no-discharge when a discharge does not occur during the report period.
 6. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
 - (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
 - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

C. SPECIAL CONDITIONS (continued)

7. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
8. Wastewater irrigation at golf course - Outfall #003
- (a) Wastewater that exceeds fecal coliform limits of 200-colonies/100 mL shall not be irrigated at the golf course.
 - (b) Irrigation shall not occur during access by the public.
 - (c) Wastewater irrigation lines shall be constructed and in accordance with 10 CSR 20-Chapter 8 to avoid use as potable water supplies or cross connection with potable water systems.